



## Deep Learning-Based Biometric Recognition

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### Message from the Guest Editor

Dear Colleagues,

During the past few years, with the advances in deep learning, many new computation models have been proposed and significantly applied in speech and language processing, information security, etc.

Biometric authentication is part of a broader family of information security. Biometrics authentication is used in computer science as a form of identification and access control. Biometric recognitions include both physiological and behavioral characteristics.

The recognition rates of the biometric identifiers are usually decreased in the different environments using the heuristic approaches but they can be improved through deep learning.

The goal of this special issue is to bring together a diverse but complementary set of contributions on emerging deep learning methods for problems in biometrics. The topics of this special issue include but not limit to the following:

- Big data and large scale methods for biometrics
- Biometrics in fingerprint, veins, face, DNA, palm print, hand geometry, iris, retina, EEG, heart beat and odour/scent
- Biometrics in typing rhythm, gait, and voice
- Biometrics in medical applications

Prof. Shi-Jinn Horng

*Guest Editor*



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# Special Issue



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## Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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